1948 **File No.** 8221/36

B. CLASS P. W. DEPARTMENT
J BRANCH

Subject:— Village Water Supply.
Construction of open wells upto 100' depth

1

13 K 1 48

File No. 8221/36-J

Ed. Sect. Slip. 24 A.

G R., G D., No. 2408, dated 22-6-22.]

Correspondence

DOCKET SHEET (B)

Subject :—

File No. 822/36

P. W. DEPT.

J BRANCH.

References :—

Date.	To whom sent.	Notes and instructions.

Letter.

No.8221/36-V.W.S. Public Works Department,
Bombay Castle, 21st December 1948

To

The Superintending Engineer, Central Circle.

Subject: Village Water Supply Schemes:
Construction of open wells
upto 100' depth.

.....

Reference: Correspondence ending with Government Letter No.8221/36-V.W.S., dated 14th August 1948.

2. No change in the present orders is considered necessary at present, although individual cases of special type may be decided after taking into consideration the opinions of the local people and departmental and other officers, if any.

By order of the Governor of Bombay,

(A. G. Maydeo),
for Deputy Secretary to the Government
of Bombay, Public Works Department.

D.A.-Nil.

Copy forwarded for information to -

the Superintending Engineer, Southern Circle, with reference to his letter No.G.116, dated 25th October 1948,

other Superintending Engineers (except Superintending Engineer, Karnatak Irrigation Circle,) with copies of relevant previous correspondence.

Letter. No.D/5003 of 1948.
Office of the Executive Engineer,
P.W.D. East Khandesh Dn.,
Jalgaon, 5th May 1948.

To

The Superintending Engineer, Central Circle,
Poona.

Subject:- Village Water Supply.
Construction of open wells upto
100 feet depth.

Reference: Your No.G.115(a)823, dated 6-2-48.

With reference to the above, the following observations....

observations are made for your consideration.

(1) Investigation of the villages on the banks of the Tapti and Purna river (where wells are likely to be more than 60 feet depth) have clearly shown that the villagers do not want open wells of such great depth beyond 60 feet depth as it is impossible for them to lift the water to such great heights without the help of a mechanical pump. The villagers have clearly stated that such deep open wells even if provided will not be used by them as they would prefer to go down to the river and fetch water rather than use such deep wells. This has been verified by investigation of some villagers on the Tapti and Purna which have existing deep wells about 80'-100 feet depth which are not in use at all, on account of these great depths, the villagers preferring to fetch water from the river instead.

(2) Even the provision of a ramp with a bullock mote is not acceptable to them as it would be very costly to maintain and inconvenient to them. They insist on the installation of a mechanical pump if such deep wells are provided. The undersigned personally visited village Idgaon on the Tapti on 27-4-48 where there is such a deep well about 100 feet depth with a ramp and bullock mote and the villagers expalined how difficult and inconvenient it was to use the bullock mote and insisted on the installation of a mechanical pump very early.

3. Further the provision of an ~~open~~ open well about 100 feet depth would not be economical. The Construction of a 10' diameter, 100' deep well would cost about 16000 as per this Division schedule of rates excluding the provision of a ramp and bullock mote or a mechanical pump which, if to be installed would require an auxiliary storage tanks to stire the lifted water. Therefore the total cost would come to approximate 20,000 or even more including all overhead charges. Further the maintenance of a mechanical pump would be very difficult in the villages unless a special touring fitter was appointed for such pumps.

4. Under the circumstances it is to be considered again whether it would be advisable to construct deep wells when tube wells would be cheaper and quicker once machinery was made availabel for tube wells.

5. It may be pointed out that you had approved tube wells for village wells exceeding 60 feet depth vide your No.G.115(a) 7181 of 19-11-47 under similar circumstances explained in this office No.D/4230 of 28-8-47. Thus it is requested that Govt. may be approached to reconsider their decision and permit tube wells for depth exceeding 60 feet.

6. It may be stated that the D.R.D.B.E.K. at their General Meeting on 7-4-1948 unanimously agreed tube wells should be preferred for wells exceeding 60 feet depth.

Sd/- J.N.Mullan,
Executive Engineer,
East Khandesh Division,
Jalgaon.

No.G.115(a)-3219 of 1948.
Public Works Department.
Poona, 1, 13th May 1948.

To

The Chief and Secretary to Government,
Public Works Department.
Bombay.

Subject: Village Water Supply Scheme.
Construction of open wells upto 100' depth.

Reference:- Govt. Letter No.8243/36-I&B. (II)/2 dated 27th January 1948.

Government have instructed that open wells should be constructed up to a depth of 100' and for depths beyond 100' bore wells should be adopted.

2. A copy of the Executive Engineer, East Khandesh Division's No.D/5003 dated 5-5-48 is enclosed herewith for information of Govt. It will be seen therefrom that it would not be desirable to construct open wells for depth exceeding about 60' as the trouble involved in drawing wafer from such great depths is more than in

fetching.....

fetching water from a great distance. I agree with the Executive Engineer.

3. It is therefore for consideration of Govt. whether the orders issued by Govt. require modification in view of the difficulties explained by the Executive Engineer in his letter under referrence.

Sd/- . . .
Superintending Engineer,
Central Circle.

D.A.:- Copy of letter.

Copy with compliments to the Executive Engineer, East Khandesh Dn. for information with reference to his No.D/5003, dated the 5-5-48. Further instructions from the Govt. should please be awaited in the matter.

No.8221/36-V.W.S. Public Works Department,
Bombay Castle, 8th June 1948.

Forwarded to the Superintending Engineer, Southern Circle for favour of giving his views on the conditions prevailing in his circle.

By order of the Governor of Bombay,

Sd/- S.V.Iyer,
Assistant Secretary to the Government of Bombay,
Public Works Department.

------O------

Letter.

From

The Superintending Engineer, Southern Circle.

To

The Secretary to Government,
Public Works Department,
B O M B A Y.

No.G-116 Public Works Department.
Belgaum, 25th October 1948.

Subject:- Village Water Supply -
Construction of open well
upto 100 feet depth.

Reference: Government Endorsement No.8221/36-V.W.S., dated the 8th June 1948.

There are few cases in this Circle having wells to go deeper than 80 feet and even in such cases, people have

have not been averse to drawing water from such depths as against to use of a river nearby.

2. Tube wells are not suited to places with rock - formationgx below a mantle of soil, as is the case in this Circle. Please also refer to Government Endorsement No.9302/36-I.B.(II), dated 9th October 1948. Therefore open wells only are recommended in Trappean and Dharwar rock areas.

3. To save effort in liftin water, deep well xxd hand operated pumps, may be installed on the deepx wells in addition to a couple of Rahafs. Without the standby of Rahafs, the deep well pumps would put the well out of use when it goes out of order.

4. Experience in District Local Boards of Dharwar and Belgaum has been that hand pumps of Tube wells went out of order frequently due to misuse, being unprotected xand in open areas, or due to rough handling by the villagers. Added to this, will be the handicap of nonavailability of spare parts (mostly of steel.).

5. For all these reasons, neither tube wells in -- preferende to deep wells, nor hand pumps in place of Rahats can be recommended in a general manner. Hand pumps with a Rahat or two as standby arrangement is recommended on wells deeper than 80 feet.

Sd/-
Superintending Engineer, S.C.

True Copies,

N.H.Sowani,
Junior Assistant, Issue Section,
P. W. D. Secretary, Bombay.